L Number	Hits	Search Text	DB	Time stamp
32	1732	(313/315,578,580,635).CCLS.	USPAT;	2004/02/06 15:43
			US-PGPUB	
35	1732	(313/315,578,580,635).CCLS.	USPAT;	2004/02/06 15:49
			US-PGPUB	
36	47	(313/315,578,580,635).CCLS.	US-PGPUB	2004/02/06 16:03
37	1685	(313/315,578,580,635).CCLS.	USPAT	2004/02/06 16:20
38	2	4176293.pn.	USPAT;	2004/02/06 16:20
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
67	2	candoluminescent near5 (lamp	USPAT;	2004/02/06 17:20
		luminaire).ab,ti,clm.	US-PGPUB;	
			EPO; JPO;	
	1		DERWENT;	
		4-1-4-11	IBM_TDB	
68	601	(313/341).CCLS.	USPAT;	2004/02/06 17:27
			US-PGPUB	
69	206	(313/343).CCLS.	USPAT	2004/02/06 17:29
70	27	((313/343).CCLS.) and lamp.ti.	USPAT;	2004/02/06 17:30
			US-PGPUB;	
]			EPO; JPO;	
			DERWENT;	
			IBM_TDB	/ /
72	1	4539505.pn.	USPAT;	2004/02/06 17:36
			US-PGPUB;	
			EPO; JPO;	
	100	(215 (112) GGT G	IBM_TDB	0004/00/06 17 40
73	190	(315/112).CCLS.	USPAT;	2004/02/06 17:49
75	0	4176202 nn and light	US-PGPUB	2004/02/06 17:49
'	"	4176293.pn. and light	USPAT;	2004/02/06 17:49
			US-PGPUB; EPO; JPO;]
			IBM TDB	
74	1	4176293.pn.	USPAT;	2004/02/06 18:40
'*	_	4170293.pm.	US-PGPUB;	2004/02/06 18:40
			EPO; JPO;	
			IBM TDB	ļ
76	4	4539505.URPN.	USPAT	2004/02/06 17:53
77	408	(313/345).CCLS.	USPAT;	2004/02/06 18:45
		(015) 515) 10025	US-PGPUB	2001, 02, 00 20.15
78	68	((313/345).CCLS.) and (lamp	USPAT;	2004/02/06 19:06
		luminaire).ab,ti,clm.	US-PGPUB;	2001, 02, 00 25.00
			EPO; JPO;	
			DERWENT;	
			IBM TDB	[
79	77	(lamp luminaire).ab,ti,clm. and (tantalum	USPAT;	2004/02/06 19:07
		rhenium niobium zirconium) adj carbide	US-PGPUB;	
		•	EPO; JPO;	
			DERWENT;	
			IBM_TDB	
80	77	(lamp luminaire).ab,ti,clm. and (tantalum	USPAT;	2004/02/06 19:16
		rhenium niobium zirconium) adj carbide	US-PGPUB;	
]			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
81	10	candoluminesc\$7	USPAT;	2004/02/06 19:18
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
82	2	candoluminesc\$7 and series	USPAT;	2004/02/06 19:18
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
	_		IBM_TDB	
83	5	arnold-jorg.in.	USPAT	2004/02/06 19:19

Page 1

84	6	arnold-jorg.in.	USPAT;	2004/02/06 19:20
			US-PGPUB;	
			EPO; JPO;	
	ļ		DERWENT;	
	İ		IBM TDB	1
1		**************************************		2004/00/06 10 00
85	29	IP2H-AG.as. not arnold-jorg.in.	USPAT;	2004/02/06 19:20
			US-PGPUB;	
			EPO; JPO;	
	i		DERWENT;	
}			IBM TDB	
_	0	ralf-riebel.in.	USPAT;	2003/07/06 17:40
-	"	Tall-liebel.in.	•	2003/07/00 17.40
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;]
			IBM TDB	i
_	4	ralf and riebel	USPAT;	2003/07/06 17:54
	_		US-PGPUB;	,,
			EPO; JPO;	
			1	
			DERWENT;	
1			IBM_TDB	
-	528	313/578	USPAT	2003/07/06 18:04
-	133	313/629	USPAT	2003/07/06 18:06
_	710	313/243	USPAT	2003/07/06 18:09
_	44	313/378	USPAT	2003/07/06 18:30
1_	3	arnold-jorg.in.	USPAT	2003/07/06 18:30
-	_			
-	133	· ·	USPAT	2003/07/06 18:43
-	60639	313/\$	USPAT	2003/07/06 18:43
-	42	313/\$ and (rhenium niobium tantalum	USPAT	2003/07/08 10:30
		zirconium) adj carbide and lamp		
-	32	313/\$ and (rhenium niobium tantalum	USPAT	2003/07/07 17:38
	-	zirconium) adj carbide and lamp and (heating		1
}		heater heat)		
	1	· · · · · · · · · · · · · · · · · · ·	IIODA M	2002/05/05 15 25
-	11	313/\$ and (rhenium niobium tantalum	USPAT	2003/07/07 17:37
		zirconium) adj carbide and lamp and		
		incandescent	1	
-	2	313/\$ and (rhenium niobium tantalum	USPAT	2003/07/06 19:12
		zirconium) adj carbide and lamp and		
	1	incandescent same (heat heater heating)		
_	3	("1749136" "3973155" "4539505").PN.	USPAT	2003/07/06 19:06
_	o o	6018216.URPN.	USPAT	2003/07/06 19:08
-	1			
-	1	6018216.pn.	USPAT	2003/07/06 19:12
-	1	6018216.pn. and bulb	USPAT	2003/07/06 19:12
-	352	(313/15).CCLS.	USPAT;	2003/07/07 10:57
			US-PGPUB	İ
-	76	(313/591).CCLS.	USPAT:	2003/07/07 11:00
1			US-PGPUB	
1_	1541	((313/15) or (313/315) or (313/578)).CCLS.	USPAT;	2003/10/04 17:39
1	1341	(\JIJ) IJ OL \JIJ JIJ OL \JIJ JIO .CCLB.	·	2003/10/04 17:39
1	_	/#484040406# #2080488# #4800505# \	US-PGPUB	0000/65/55
-	3	("1749136" "3973155" "4539505").PN.	USPAT	2003/07/07 12:51
-	0	("candoluminescent.ab,ti.").PN.	USPAT;	2003/07/07 12:52
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM TDB	
l _	7	candoluminescent.ab,ti.	_	2003/07/07 14:50
1	/	candoruminescent.ab, cr.	USPAT;	2003/07/07 14:50
1			US-PGPUB;	
1			EPO; JPO;	
	1	,	DERWENT;	
ì		·	IBM TDB	
-	2	6268285.pn.	USPAT;	2003/07/07 12:56
		· · · · · · · · · · · · · · · · · · ·	US-PGPUB;	= 115, 11, 07, 121, 30
	1		EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	2	6268286.pn.	USPAT;	2003/07/07 12:56
			US-PGPUB;	
	[EPO; JPO;	
1			DERWENT;	
1			IBM TDB	
L	L		12 100	I

-	1	6268685.pn.	USPAT;	2003/07/07 12:56
			US-PGPUB;	
			EPO; JPO;	
			IBM TDB	
_	1	6018216.pn.	USPAT;	2003/07/07 13:33
	_	0010210.pm.	US-PGPUB;	2003,07,07 13.33
			EPO; JPO;	
	_		IBM_TDB	/ /
-	1	6018216.pn. and brilliant\$3	USPAT;	2003/07/07 13:35
			US-PGPUB;	
			EPO; JPO;	
			IBM TDB	
-	1	6018216.pn. and radiate	USPAT;	2003/07/07 13:36
		•	US-PGPUB;	
			EPO; JPO;	
			IBM_TDB	
_	1	6018216.pn. and (extreme\$3 radiate)	USPAT;	2003/07/07 13:38
	_	dolozio.pii. and (extremess radiate)	US-PGPUB;	2003/07/07 13.38
	•			
			EPO; JPO;	
			IBM_TDB	
-	1	6018216.pn. and (cylind\$6)	USPAT;	2003/07/07 13:48
			US-PGPUB;	
			EPO; JPO;	
			IBM TDB	
1 -	1	6018216.pn. and (tungsten rhenium tantalum	USPAT;	2003/07/07 13:54
	1	zirconium niobium)	US-PGPUB;	====, =, , , , , , , , , , , , , , , ,
1		222Contain Intontain	EPO; JPO;	
1				
		5010015	IBM_TDB	0000 (00 (00 00 00
-	1	6018216.pn. and bulb same (reflect\$5)	USPAT;	2003/07/07 13:56
			US-PGPUB;	f I
			EPO; JPO;	
		,	IBM TDB	
-	1	6018216.pn. and gas	USPAT;	2003/07/07 14:00
			US-PGPUB;	
			EPO; JPO;	
			IBM TDB	
	1	6018216.pn. and series	USPAT;	2003/07/07 14:18
-	_	outozio.pm. and series		2003/07/07 14:18
			US-PGPUB;	
			EPO; JPO;	
			IBM_TDB	
-	1	6268685.pn.	USPAT;	2003/07/07 14:56
			US-PGPUB;	
	1		EPO; JPO;	
			IBM_TDB	
-	1	6268685.pn. and candoluminescen\$5	USPAT;	2003/07/07 14:22
1	1	•	US-PGPUB;	. , -
	1		EPO; JPO;	
1	1		IBM TDB	
1_	5	candoluminescent.bi. and (lamp light adj	USPAT;	2003/07/07 14:51
		source).ab,ti.		2003/07/07 14:51
	İ	Boulce, ab, ci.	US-PGPUB;	
	1		EPO; JPO;	
	1		DERWENT;	
	<u> </u>		IBM_TDB	
-	1		USPAT;	2003/07/07 14:51
	1.	source).ab,ti. not candoluminescent.ab,ti.	US-PGPUB;	
	1		EPO; JPO;	
1			DERWENT;	
			IBM TDB	
_	1	6268685.pn. and (cylind\$7)	USPAT;	2003/07/07 16:43
		ozooos.pm. and (oyiinay//	US-PGPUB;	2003/07/07 10.43
			-	
1	ŀ		EPO; JPO;	
	_	cococos and the said	IBM_TDB	
-	1	6268685.pn. and (heat)	USPAT;	2003/07/07 16:43
			US-PGPUB;	
			EPO; JPO;	
	1		IBM_TDB	
-	1	6268685.pn. and (heat\$5) same mantle	USPAT;	2003/07/07 16:54
1		• • • • • • • • • • • • • • • • • • • •	US-PGPUB;	=====
			EPO; JPO;	
	}		IBM TDB]
L	I	<u> </u>	בוחד ויוחד	

-	1	6268685.pn. and tungsten	USPAT;	2003/07/07 17:01
į			US-PGPUB;	
			EPO; JPO;	
_	١,	6268685.pn. and ("15" "32")	IBM_TDB USPAT;	2003/07/07 17:05
-	1	626663.pii. and (13 32)	US-PGPUB;	2003/07/07 17:03
			EPO; JPO;	
			IBM TDB	
-	0	6268685.pn. and ("15" "32") same dielectric	USPAT;	2003/07/07 17:06
:		•	US-PGPUB;	
			EPO; JPO;	
			IBM_TDB	
-	1	6268685.pn. and gas	USPAT;	2003/07/07 17:08
			US-PGPUB;	
			EPO; JPO;	
	,	(200005 and (incut ways halazan)	IBM_TDB	2002/07/07 17 11
-	1	6268685.pn. and (inert rare halogen)	USPAT;	2003/07/07 17:11
			US-PGPUB; EPO; JPO;	
			IBM TDB	
_	1	6268685.pn. and fill	USPAT;	2003/07/07 17:12
	_	ozoooos.pm. unu 1111	US-PGPUB;	2003/07/07 17:12
			EPO; JPO;	
			IBM TDB	
-	1	6268685.pn. and (coat coating coated)	USPAT;	2003/07/07 17:12
			US-PGPUB;	
			EPO; JPO;	
	1		IBM_TDB	
-	1	1	USPAT	2003/07/07 17:49
-	11	1 ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	USPAT	2003/07/07 17:37
		zirconium) adj carbide and lamp and incandescent		
	32	313/\$ and (rhenium niobium tantalum	USPAT	2003/07/07 18:00
	32	zirconium) adj carbide and lamp and (heating	USPAI	2003/07/07 18:00
		heater heat)		
_	24	(313/\$ and (rhenium niobium tantalum	USPAT	2003/07/07 17:39
		zirconium) adj carbide and lamp and (heating		
		heater heat)) not (313/\$ and (rhenium		
		niobium tantalum zirconium) adj carbide and		
	_	lamp and incandescent)		
-	0	("dielectric adj multilayer adj3 (coat	USPAT;	2003/07/07 17:40
		coating) and bulb").PN.	US-PGPUB;	
			EPO; JPO;	
			DERWENT; IBM TDB	
-	3	dielectric adj multilayer adj3 (coat	USPAT;	2003/07/07 17:45
		coating) and bulb	US-PGPUB;	
		J	EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	1240	(313/113).CCLS.	USPAT;	2003/07/07 17:42
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
_	29	((313/113).CCLS.) and multilayer	<pre>IBM_TDB USPAT;</pre>	2003/07/07 17:43
1	29	(\513/113/.ccub./ and multilayer	US-PGPUB;	2003/07/07 17:43
]			EPO; JPO;	
1			DERWENT;	
			IBM TDB	
-	25	((313/113).CCLS.) and multilayer same	USPAT;	2003/07/07 17:45
		(reflect\$5 mirror\$4)	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
	3.5	diologenia magua muleilassas adda (asab	IBM_TDB	0000/07/55 15 15
<u> </u> -	26		USPAT;	2003/07/07 17:47
		coating) and bulb	US-PGPUB; EPO; JPO;	
			DERWENT;	
			IBM TDB	
L				

-	10	dielectric near3 multilayer adj3 (coat	USPAT;	2003/07/07 17:48
ŀ		coating) and bulb and (lamp light near2	US-PGPUB;	
İ		source).ab,ti.	EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	1	dielectric near3 multilayer adj3 (coat	USPAT;	2003/07/07 17:48
		coating) same (enbelope bulb) and (lamp	US-PGPUB;	
		light near2 source).ab,ti.	EPO; JPO;	
			DERWENT;	
		6010016	IBM_TDB	0000/07/07 17 40
-		6018216.pn. and gas	USPAT	2003/07/07 17:49
-	97	313/\$ and (rhenium niobium tantalum	USPAT	2003/07/07 18:01
		zirconium) and lamp and (heating heater		
		heat) and (radiate radiation radiating) and tungsten with filament		
_	27	313/\$ and (rhenium niobium tantalum	USPAT	2003/07/07 18:21
-	2'	zirconium same (radiator radiate radiation	USPAI	2003/07/07 18:21
		radiating) and lamp and (heating heater		
		heat) and tungsten with filament		
_	1	l	USPAT	2003/07/07 18:53
	1	coat).bi. with (tantalum rhenium niobium	001111	2003,07,07 10.33
		zirconium) near3 carbide		
1 -	1		USPAT	2003/07/07 18:59
1	•	sources		, 5., 0. 10.05
-	13		USPAT	2003/07/07 18:53
		"4160929" "4229066" "4346324"		=====================================
		"4366407" "4532073" "4535269"		
		"4539505" "4588923" "4652789"		
		"4663557").PN.		
-	19	lamp.ab,ti. and ((indancescent adj radiator)	USPAT	2003/07/07 19:05
		(refractory adj oxide)) and (filament		
		filamentary)		
-	1	,	USPAT;	2003/07/07 19:06
		(refractory adj oxide)) with radiator and	EPO; JPO;	
		(filament filamentary)	IBM_TDB	
-	1	4016446.pn.	USPAT;	2003/07/07 19:08
			EPO; JPO;	
			IBM_TDB	
-		4016446.URPN.	USPAT	2003/07/07 19:06
-	1	1	USPAT	2003/07/07 19:12
-		4942331.pn.	USPAT	2003/07/07 19:13
-	1897	multilayer same dielectric same (reflect\$5 mirror\$4)	USPAT	2003/07/07 19:14
	215		HODAM	2002/07/07 10 14
-	215	(lamp light adj source).ti,ab. and multilayer with dielectric same (reflect\$5	USPAT	2003/07/07 19:14
_	7	mirror\$4) (lamp light adj source).ti,ab. and	USPAT;	2003/07/07 19:15
_	·	multilayer with dielectric same (reflect\$5	EPO; JPO;	2003/07/07 19:15
		mirror\$4) same selective	IBM_TDB	
_	7		USPAT;	2003/07/07 19:16
	,	multilayer with dielectric with selective	EPO; JPO;	2003/07/07 13.10
		manufact with distribution with belocitye	IBM TDB	
-	3	(lamp light adj source).ti,ab. and	USPAT;	2003/07/07 19:16
		multilayer with dielectric same selective	EPO; JPO;	
		not ((lamp light adj source).ti,ab. and	IBM TDB	
		multilayer with dielectric with selective)		
-	1	(lamp light adj source).ti,ab. and	USPAT;	2003/07/07 19:16
		multilayer with oxide same selective not	EPO; JPO;	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		((lamp light adj source).ti,ab. and	IBM_TDB	
	1	multilayer with dielectric with selective)	_	
-	21	(lamp light adj source).ti,ab. and	USPAT;	2003/07/07 19:18
		multilayer same selective not ((lamp light	EPO; JPO;	
		adj source).ti,ab. and multilayer with	IBM_TDB	
		dielectric with selective)		
-	1	(lamp light adj source).ti.ab. and titania	USPAT;	2003/07/07 19:18
		near5 silica near5 dichroic near5 reflector	EPO; JPO;	
	<u> </u>		IBM_TDB	
-	154	(lamp light adj source).ti,ab. and titania	USPAT;	2003/07/07 19:19
		near5 silica	EPO; JPO;	
	[IBM TDB	

-	1	(lamp light adj source).ti,ab. and titania	USPAT;	2003/07/07 19:19
	1	near5 silica same selective	EPO; JPO;	
			IBM_TDB	
-	18	(lamp light adj source).ti,ab. and titania	USPAT;	2003/07/07 19:20
		near5 silica near5 (mirror\$5 reflect\$5)	EPO; JPO;	
1			IBM_TDB	
-	8	(lamp light adj source).ti,ab. and titania	USPAT;	2003/07/07 19:57
		near5 silica near5 (mirror\$5 reflect\$5) and	EPO; JPO;	
		filament	IBM_TDB	
-	1	4196368.pn.	USPAT;	2003/07/07 20:00
1			EPO; JPO;	
	_	4106260	IBM_TDB	0000/07/07 00 00
-	1	4196368.pn. and gas	USPAT;	2003/07/07 20:03
Ì			EPO; JPO;	
		4106260 JEDDY	IBM_TDB	2003/07/07 20.03
_		4196368.URPN.	USPAT	2003/07/07 20:03
-	5	tantalum adj carbide and tungsten same	USPAT;	2003/07/07 20:06
		filament and halogen same (bromide iodide)	EPO; JPO;	
	6	(rhenium niobium tantalum zirconium) near3	IBM_TDB USPAT;	2003/07/07 20:13
_	•		·	2003/07/07 20:13
	1	carbide and tungsten same filament and	EPO; JPO;	
l _	3	halogen same (bromide iodide) ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r	IBM_TDB USPAT;	2003/07/07 20:12
-		0.sub.2" "Y.sub.2 0.sub.3"	EPO; JPO;	2003/07/07 20:12
) and tungsten same filament and halogen	IBM TDB	
		same (bromide iodide)	184-188	
_	8		USPAT;	2003/07/07 20:12
		0.sub.2" "Y.sub.2 0.sub.3"	EPO; JPO;	2003/07/07 20:12
) and tungsten same filament and (halide	IBM_TDB	
		halogen halogenated) same (bromide iodide)	15155	
_	54	("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r	USPAT;	2003/07/07 20:12
		O.sub.2" "Y.sub.2 O.sub.3" carbide	EPO; JPO;	2003,01,07 20112
) and tungsten same filament and (halide	IBM TDB	
		halogen halogenated) same (bromide iodide)		1
_	10	("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r	USPAT;	2003/07/07 20:14
		O.sub.2" "Y.sub.2 O.sub.3" carbide	EPO; JPO;	
) same tungsten same filament and (halide	IBM TDB	
		halogen halogenated) same (bromide iodide)	_	
-	1	("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r	USPAT;	2003/07/07 20:14
		O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium	EPO; JPO;	
		tantalum zirconium) near3 carbide	IBM_TDB	
) same tungsten same filament and (halide		
		halogen halogenated) same (bromide iodide)		
-	1	("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r	USPAT;	2003/07/07 20:15
		O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium	EPO; JPO;	
		tantalum zirconium) near3 carbide "TaC"	IBM_TDB	
) same tungsten same filament and (halide		
]	_	halogen halogenated) same (bromide iodide)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0000/05/55 55
-	3	("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r	USPAT;	2003/07/07 20:16
]		O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium	EPO; JPO;	
		tantalum zirconium) near3 carbide "TaC"	IBM_TDB	
) same tungsten same filament and (bromide iodide)		
_	27	("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r	USPAT:	2003/07/08 10:36
	2'	O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium	EPO; JPO;	2003/07/00 10:36
		tantalum zirconium) near3 carbide "TaC"	IBM TDB	
	ĺ) and tungsten same filament and (bromide	12122	
		iodide)		
] _	8		USPAT:	2003/07/07 20:17
		O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium	EPO; JPO;	,, -, -,,
		tantalum zirconium) near3 carbide "TaC"	IBM TDB	
ļ l) and tungsten same filament and (bromide	_	
		iodide) same gas		
-	9	313/\$ and (halogen adj gas) with (bromide	USPAT	2003/07/08 10:30
		iodide)		·
-	35	("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r	USPAT;	2003/07/08 11:33
		O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium	EPO; JPO;	
		tantalum zirconium) near3 carbide "TaC"	IBM_TDB	
) and tungsten with filament and (bromide		
L_,		bromine iodine iodide)		

1 ("ThO.sub.2" "Nio" "Ceo.sub.2" "2.sub.r O.sub.3" (Thenium niohium tantalum zirconium) near3 carbide "TaC"					
tantalum zirconium) near3 carbide "TaC" same (radiat55) and tungsten and (bromide bromine iodine iodide) 1PM_TDB 2003/07/08 11:12 2003/07/	-	1	("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r	1	2003/07/08 10:41
Same (radiats) and tungsten with filament and (bromide bromine iodine iodide) ("ThO.sub.2" "NIO" "Ceo.sub.2" "Z.sub.r" USPAT; EPG; JPO; IBM_TDB 1:25				EPO; JPO;	
and (bromsde bromine iodine iodine) 0 ("Tho. sub.2" "No" "Ceo. sub.2" "Laub.r 0 . sub.2" "Y. sub.2 O. sub.3" (rhenium niobium tantalum zirconium) near3 carbide "Rac" 1				IBM_TDB	
and (bromsde bromine iodine iodine) 0 ("Tho. sub.2" "No" "Ceo. sub.2" "Laub.r 0 . sub.2" "Y. sub.2 O. sub.3" (rhenium niobium tantalum zirconium) near3 carbide "Rac" 1) same (radiat\$5) and tungsten with filament	_	
O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near] carriode "Tac" IBM_TDB 1003/07/08 11:25 1003/07/08 12:15 1003/07/0				}	
O.sub.2" Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "Tac" IRM_TDB 1803/07/08 11:25 2003/07/08 12:15 2003/07/08	_	0	("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r	USPAT;	2003/07/08 11:12
tantalum zirconium) near3 carbide "Tac" same (radiates) and tungstem with filament and (bromide bromine iodine iodide) with gas				•	=====================================
Same (radiats5) and tungsten with filament and (bromide bromine iodine iodide) with gas 5493167.pn. and filament USPAT; EPO; JPO; IBM_TDB USPA				1 ' '	
1 1 1 1 1 1 1 1 1 1				12122	
1 5493167.pn. and filament			and (bromide bromine jodine jodide) with gas		
1 6018216.pn. and (bulb envelope)		,		IICDAM.	2002/07/09 11:25
1 6018216.pn. and (bulb envelope)	_	1	5493167.pii. and Illament	1	2003/07/08 11:25
1 6018215.pn. and (bulb envelope)					
1			(010016 //- //- //- //- //- //- //		
1	-	1	6018216.pn. and (bulb envelope)	1	2003/07/08 12:14
1 4196368.pn. and (gas)				1	
97 ("ThO.sub.2" "Nio" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") and tungsten and filament and (bromide bromine iodine iodide) - 21 ("ThO.sub.2" "Nio" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") and tungsten and filament and (bromide bromine iodine iodide) with gas ("ThO.sub.2" "Nio" "CeO.sub.2" "Z.sub.r O.sub.2" "Nio "CeO.sub.2" "Z.sub.r O.sub.2" "Nio "CeO.sub.2" "Z.sub.r O.sub.2" "Nio "CeO.sub.2" "Z.sub.r O.sub.2" "Nio "CeO.sub.2" "Z.sub.r O.sub.2" "Nio "CeO.sub.2" "Z.sub.r O.sub.2" "Nio "CeO.sub.2" "Z.sub.r O.sub.2" "Nio "CeO.sub.2" "Z.sub.r O.sub.2" "Nio "CeO.sub.2" "Z.sub.r O.sub.2" "Nio "CeO.sub.2" "Z.sub.r O.sub.2" "Nio "CeO.sub.2" "Z.sub.r O.sub.2" "Nio "CeO.sub.2" "Z.sub.r O.sub.2" "X.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coats4 shield layer53) and tungsten and filament and (series) USPAT; EPO; JPO; IBM_TDB USPAT; EPO; JPO; IBM_TD		1		_	
1	-	1	4196368.pn. and (gas)	-	2003/07/08 11:32
0				EPO; JPO;	
0.sub.2" "Y. sub.2 0.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC" 1003/07/08 11:34				IBM_TDB	
O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "Tac"	-	97	("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r	USPAT;	2003/07/08 11:33
tantalum zirconium) near3 carbide "TaC"			O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium	EPO; JPO;	
Department and filament and (bromide bromaine iodicale)			tantalum zirconium) near3 carbide "TaC"	IBM TDB	
Dromine iodidie Octob sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium nicolum tantalum zirconium) near3 carbide "Tac" USPAT; EPO; JPO; IBM_TDB		ŀ		_	
Co. sub.2" "NiO" "CeO. sub.2" "Z. sub.r				1	1
O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "Tac" 1	_	21	· · · · · · · · · · · · · · · · · · ·	HISDAT.	2003/07/08 11.24
tantalum zirconium) near3 carbide "TaC") and tungsten and filament and (bromide bromine ioddine iodide) with gas ("ThO. sub.2" "Nio" "CeO. sub.2" "Z. sub.r O. sub.2" "Y. sub.2 O. sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC" USPAT; EPO; JPO; IBM_TDB - 3 ("ThO. sub.2" "Nio" "CeO. sub.2" "Z. sub.r O. sub.2" "Y. sub.2 O. sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC" USPAT; EPO; JPO; IBM_TDB - 3 ("ThO. sub.2" "Nio" "CeO. sub.2" "Z. sub.r O. sub.2" "Y. sub.2 O. sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC" USPAT; EPO; JPO; IBM_TDB - 4 176293.pn. - 5 6018216.pn. and (series) - 6 6268685.pn. and series - 6 6268685.pn. - 7 ("ThO. sub.2" "Nio" "CeO. sub.2" "Z. sub.r O. sub.2" "Y. sub.2 O. sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC" USPAT; EPO; JPO; IBM_TDB - 7 ("ThO. sub.2" "Nio" "CeO. sub.2" "Z. sub.r O. sub.2" "Y. sub.2 O. sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC" USPAT; EPO; JPO; IBM_TDB - 7 ("ThO. sub.2" "Nio" "CeO. sub.2" "Z. sub.r O. sub.2" "Y. sub.2 O. sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC" USPAT; EPO; JPO; IBM_TDB - 7 ("ThO. sub.2" "Nio" "CeO. sub.2" "Z. sub.r O. sub.2" "Y. sub.2 O. sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC" USPAT; EPO; JPO; IBM_TDB - 8 ("ThO. sub.2" "Nio" "CeO. sub.2" "Z. sub.r O. sub.2" "Y. sub.2 O. sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC" USPAT; EPO; JPO; IBM_TDB - 8 ("ThO. sub.2" "Nio" "CeO. sub.2" "Z. sub.r O. sub.2" "Y. sub.2 O. sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC" USPAT; EPO; JPO; IBM_TDB - 9 ("ThO. sub.2" "Nio" "CeO. sub.2" "Z. sub.r O. sub.2" "Y. sub.2 O. sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC" USPAT; EPO; JPO; IBM_TDB					2003,07,00 11:34
and tungsten and filament and (bromide bromaine iodine iodide) with gas ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament and (bromide bromine iodine iodide) with gas ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament and (bromide bromine iodine iodide) with (gas gaseous)	•				
bromine iodine iodide) with gas			· ·	L TBM-IDB	
3 ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r	1				
O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC" with (coat\$4 shield layer\$3) and tungsten and filament and (bromide bromine iodine iodide) with gas ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC" with (coat\$4 shield layer\$3) and tungsten and filament and (bromide bromine iodine iodide) with (gas gaseous) USPAT; EPO; JPO; IBM_TDB	1				
tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament and (bromide bromine iodine iodide) with gas ("ThO.sub.2" "Nio" "CeO.sub.2" "Z.sub.r O.sub.2" "X.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament and (bromide bromine iodine iodide) with (gas gaseous) 1 4176293.pn. 1 6018216.pn. and (series) - 0 6268685.pn. and series - 1 6268685.pn. 2 0 6268685.pn. and series - 1 6268685.pn. - 2 1 6268685.pn. - 3 ("ThO.sub.2" "Nio" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament and series - 3 ("ThO.sub.2" "Nio" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament same series - 3 ("ThO.sub.2" "Nio" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament same series - 3 ("ThO.sub.2" "Nio" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament same series - 3 ("ThO.sub.2" "Nio" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tingsten and filament same series - 46 sintering with (zirconium calcium) near3 47 ("ThO.sub.2" "Nio" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tingsten and filament same series and incandesc\$6 sintering with (zirconium calcium) near3 - 3 ("ThO.sub.2" "Nio" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$51) and tingsten and filament same series and incandesc\$6 sintering w	-	3			2003/07/08 11:36
With (coat\$4 shield layer\$3) and tungsten and filament and (bromide bromine iodine iodide) with gas ("ThO.sub.2" "Nio" "CeO.sub.2" "Z.sub.r O.sub.2" "X.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament and (bromide bromine iodine iodide) with (gas gaseous) - 1 6018216.pn. and (series) - 0 6268685.pn. and series - 1 6268685.pn. and series - 1 6268685.pn. and series - 2 8 ("ThO.sub.2" "Nio" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament and series - 7 ("ThO.sub.2" "Nio" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament same series - 3 ("ThO.sub.2" "Nio" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament same series - 3 ("ThO.sub.2" "Nio" "CeO.sub.2" "Z.sub.r O.sub.2" "Z.sub.r O.sub.2" "X.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament same series and incandes\$6 sintering with (zirconium calcium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and filament same series and incandes\$6 sintering with (zirconium calcium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and filament same series and incandes\$6 sintering with (zirconium calcium) near3 carbide "TaC" Sepo; JPO; JPO; JPO; JPO; JPO; JPO; JPO; JPO					
and filament and (bromide bromine iodine iodide) with gas ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat54 shield layer53) and tungsten and filament and (bromide bromine iodine iodide) with (gas gaseous) 1 4176293.pn. 1 6018216.pn. and (series) 2 003/07/08 12:15 EPO; JPO; IBM_TDB USPAT; EPO; JPO; IBM_				IBM_TDB	
iodide) with gas ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament and (bromide bromine iodine iodide) with (gas gaseous) 1 4176293.pn. 1 6018216.pn. and (series) - 0 6268685.pn. and series - 0 6268685.pn. and series - 1 6268685.pn. - 1 6268685.pn. - 2 7 ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament same series ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament same series ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament same series ("ThO.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and filament same series and incandesc\$6 sintering with (zirconium calcium) near3 salt USPAT; EPO; JPO; IBM_TDB USPAT; EPO; JPO;					
ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC" o.sub.2" "NiO" "CeO.sub.2" "Z.sub.r D. IBM_TDB					
O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC" with (coat\$4 shield layer\$3) and tungsten and filament and (bromide bromine iodine iodide) with (gas gaseous) USPAT; EPO; JPO; IBM_TDB USPAT; EPO			iodide) with gas		
O.sub.2" "Y.sub.2 O.sub.3" (rhemium niobium tantalum zirconium) near3 carbide "TaC" With (coat\$4 shield layer\$3) and tungsten and filament and (bromide bromine iodine iodide) with (gas gaseous) USPAT; EPO; JPO; IBM_TDB USPAT; EPO; JPO; IBM_	-	3	("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r	USPAT;	2003/07/08 12:15
tantalum zirconium) near3 carbide "Tac") with (coat\$4 shield layer\$3) and tungsten and filament and (bromide bromine iodine iodide) with (gas gaseous) 1 4176293.pn. 1 6018216.pn. and (series) 2 003/07/08 12:01 EPO; JPO; IEM_TDB USPAT; EPO; JP			O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium	EPO; JPO;	
with (coat\$4 shield layer\$3) and tungsten and filament and (bromide bromine iodine iodide) with (gas gaseous) 1			tantalum zirconium) near3 carbide "TaC"		
and filament and (bromide bromine iodine iodide) with (gas gaseous) 1 4176293.pm. 1 6018216.pm. and (series) 1 6028685.pm. and series 2 0 6268685.pm. and series 1 6268685.pm. and series 2 003/07/08 12:15 2 003/07/08 12:15 2 003/07/08 12:15 2 003/07/08 12:15 3 0 6268685.pm. and series 4 0 6268685.pm. 4 0 6268685.pm. 4 0 6268685.pm. 4 0 6268685.pm. 4 0 6268685.pm. 4 0 6268685.pm. 4 0 6268685.pm. 4 0 6268685.pm. 4 0 6268685.pm. 4 0 6268685.pm. 4 0 6268685.pm. 4 0 6268685.pm. 4 0 6268685.pm. 4 0 6268685.pm. 4 0 6268685.pm. 4 1 6268685.pm. 4 2 0 6268685.pm. 4 2 0 6268685.pm. 4 2 0 6268685.pm. 4 3 0 8 0 8 0 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	i				:
iodide) with (gas gaseous)					
- 1 4176293.pn. USPAT; EPO; JPO; IBM TDB USPAT					
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EPO; JPO; IBM TDB USPAT; EPO; JPO; IBM_TDB USPAT; EPO; JPO; JPO; IBM_TDB USPAT; EPO; JPO; IBM_TD	l _	-	6018216 pp and (series)	-	2002/07/00 10 15
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FPO; JPO; IBM_TDB S8 ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament and series ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament same series ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament same series ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and filament same series and incandesc\$6 sintering with (zirconium calcium) near3 46 sintering with (zirconium calcium) near3 USPAT; EPO; JPO; IBM_TDB 2003/07/08 12:20 USPAT; EPO; JPO; IBM_TDB				_	
FPO; JPO; IBM_TDB S8 ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament and series ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament same series ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament same series ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and filament same series and incandesc\$6 sintering with (zirconium calcium) near3 46 sintering with (zirconium calcium) near3 USPAT; EPO; JPO; IBM_TDB 2003/07/08 12:20 USPAT; EPO; JPO; IBM_TDB	-	1	6268685.pn.	USPAT;	2003/07/08 12:15
- S8 ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament and series ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament same series ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium and filament same series ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and filament same series and incandesc\$6 sintering with (zirconium calcium) near3 salt USPAT; EPO; JPO; IBM_TDB 2003/07/08 12:17 2003/07/08 12:20 2003/07/08 12:20 USPAT; EPO; JPO; IBM_TDB	j	1			i i
O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament and series ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament same series and filament same series ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and filament same series and incandesc\$6 sintering with (zirconium calcium) near3 salt USPAT; EPO; JPO; USPAT; EPO; JPO; IBM_TDB USPAT; EPO; JPO; IBM_TDB				IBM_TDB	
O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament and series ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament same series ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC" O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and filament same series and incandesc\$6 sintering with (zirconium calcium) near3 salt EPO; JPO; IBM_TDB USPAT; EPO; JPO; USPAT; EPO; JPO;	-	58	("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r	USPAT;	2003/07/08 12:17
tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament and series ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament same series ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and filament same series and incandesc\$6 sintering with (zirconium calcium) near3 salt SPAT;		1	0.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium		
<pre>) with (coat\$4 shield layer\$3) and tungsten and filament and series ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament same series ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and filament same series and incandesc\$6 sintering with (zirconium calcium) near3 salt</pre> USPAT; EPO; JPO; USPAT; EPO; JPO; USPAT; EPO; JPO;			tantalum zirconium) near3 carbide "TaC"		
and filament and series ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament same series ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and filament same series and incandesc\$6 sintering with (zirconium calcium) near3 salt USPAT; EPO; JPO; IBM_TDB USPAT; EPO; JPO; IBM_TDB USPAT; EPO; JPO;					
7 ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament same series ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and filament same series and incandesc\$6 sintering with (zirconium calcium) near3 salt USPAT; EPO; JPO; IBM_TDB 2003/07/08 12:20 2003/07/08 12:20 2003/07/08 12:20 2003/07/08 12:20 2003/07/08 12:20 2003/07/08 12:20					
O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament same series ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and filament same series and incandesc\$6 sintering with (zirconium calcium) near3 salt EPO; JPO; IBM_TDB 2003/07/08 12:48 USPAT; EPO; JPO;	_	7		USPAT	2003/07/08 12:20
tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and tungsten and filament same series ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and filament same series and incandesc\$6 sintering with (zirconium calcium) near3 salt TBM_TDB USPAT; EPO; JPO; USPAT; EPO; JPO; USPAT; EPO; JPO; USPAT; EPO; JPO; DOM 12:53 EPO; JPO; DOM 12:54 EPO; JPO; DOM 12:55 EPO; JPO; DO		ĺ		'	-000,07,00 12.20
) with (coat\$4 shield layer\$3) and tungsten and filament same series ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and filament same series and incandesc\$6 sintering with (zirconium calcium) near3 salt USPAT; EPO; JPO;				· ·	
and filament same series ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and filament same series and incandesc\$6 sintering with (zirconium calcium) near3 salt USPAT; EPO; JPO; USPAT; EPO; JPO;				10.1 100	1
- 3 ("ThO.sub.2" "NiO" "CeO.sub.2" "Z.sub.r O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and filament same series and incandesc\$6 sintering with (zirconium calcium) near3 salt USPAT; EPO; JPO; USPAT; EPO; JPO;			and filament came cerios		
O.sub.2" "Y.sub.2 O.sub.3" (rhenium niobium tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and filament same series and incandesc\$6 sintering with (zirconium calcium) near3 salt EPO; JPO; USPAT; EPO; JPO;	_	,		tionam.	1 2002 /07/20 20 12
tantalum zirconium) near3 carbide "TaC") with (coat\$4 shield layer\$3) and filament same series and incandesc\$6 - 46 sintering with (zirconium calcium) near3 USPAT; EPO; JPO;	-	3		•	2003/07/08 12:48
) with (coat\$4 shield layer\$3) and filament same series and incandesc\$6 - 46 sintering with (zirconium calcium) near3 USPAT; EPO; JPO;					
same series and incandesc\$6 - 46 sintering with (zirconium calcium) near3 USPAT; 2003/07/08 12:53 salt EPO; JPO;			· · · · · · · · · · · · · · · · · · ·	TRW_IDB	
- 46 sintering with (zirconium calcium) near3 USPAT; 2003/07/08 12:53 salt					
salt EPO; JPO;					<u> </u>
	-	46		•	2003/07/08 12:53
IBM_TDB			salt		
				IBM_TDB	

-	1	4532073.pn.	USPAT; EPO; JPO;	2003/07/08 13:02
-	1	6268685.pn.	IBM_TDB USPAT; EPO; JPO;	2003/07/08 13:02
-	1	6268685.pn. and (rhenium tantalum zirconium niobium)	IBM_TDB USPAT; EPO; JPO; IBM TDB	2003/07/08 13:02
-	1	6066861.pn.	USPAT; US-PGPUB; EPO; JPO;	2003/10/03 10:21
-	9	(US-4176293-\$ or US-4539505-\$ or US-5051648-\$ or US-4032809-\$ or US-4703220-\$	IBM_TDB USPAT; US-PGPUB	2003/10/03 21:00
-	19	or US-6018216-\$ or US-6268685-\$ or US-6469426-\$).did. or (US-20020057058-\$).did. (US-1910778-\$ or US-1749136-\$ or US-1559381-\$ or US-0844213-\$ or US-2007926-\$	USOCR	2003/10/03 21:00
		or US-2007945-\$ or US-1956598-\$ or US-1425967-\$ or US-1252372-\$ or US-1406645-\$ or US-2671873-\$ or US-2780746-\$ or US-2721289-\$ or US-2171359-\$ or US-1975499-\$ or US-2333052-\$ or US-2121589-\$ or US-2170683-\$ or US-2714683-\$).did.		
-	4	((US-4176293-\$ or US-4539505-\$ or US-5051648-\$ or US-4032809-\$ or US-4703220-\$ or US-6018216-\$ or US-6268685-\$ or US-6469426-\$).did. or (US-20020057058-\$).did.) and series	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/10/03 21:00
-	9	(US-5051648-\$ or US-6469426-\$ or US-6268685-\$ or US-6018216-\$ or US-4703220-\$ or US-4539505-\$ or US-4176293-\$ or US-4032809-\$).did. or (US-20020057058-\$).did.	USPAT; US-PGPUB	2003/10/04 12:40
	19	(US-2007945-\$ or US-2170683-\$ or US-1252372-\$ or US-1749136-\$ or US-1910778-\$ or US-1559381-\$ or US-1975499-\$ or US-1956598-\$ or US-2721289-\$ or US-1425967-\$ or US-140645-\$ or US-0844213-\$ or US-2780746-\$ or US-2714683-\$ or US-2671873-\$ or US-2333052-\$ or US-2171359-\$ or US-2121589-\$ or US-2007926-\$).did.	USOCR	2003/10/04 12:40
-	219069	"9" and halogen	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/10/04 12:41
-	5	((US-5051648-\$ or US-6469426-\$ or US-6268685-\$ or US-6018216-\$ or US-4703220-\$ or US-4539505-\$ or US-4176293-\$ or US-4032809-\$).did. or US-4032809-\$).did. or US-20020057058-\$).did. ord balogor	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2003/10/04 12:41
-	6	(US-20020057058-\$).did.) and halogen arnold-jorg.in.	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2003/10/04 20:56
-	4	5493167.pn. 4169368.pn.	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2003/10/04 17:14
-	2	5493167.pn. 4169368.pn.	IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2003/10/04 17:16
-	2	5493167.pn. 4196368.pn.	IBM_TDB USPAT; US-PGPUB; EPO; JPO; IBM TDB	2003/10/04 17:29